



2 Worksheet: Work, energy and power

QUESTION 1

1.1 A girl with mass 60 kg slides 3 m down an inclined plane as shown in the picture.

- a. Calculate the work done on the girl by gravity.
- b. Calculate the work done on the girl by the normal force.



1.2 A block (5 kg) is pulled by a force of 60 N at an angle of 30° to the ground. The block moves 3,25 m.

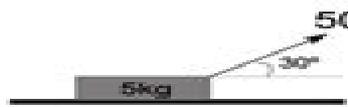
- a. Calculate the work done on the block by gravity.
- b. Calculate the work done on the block by the applied force.



1.3 A 1200 kg car is pulled 3 m up an incline (30° with the ground) by a rope exerting a force of 8000 N on the car. The car experiences a 20 N frictional force.

- a. Draw a labelled free body diagram of all the forces acting on the car.
- b. Calculate the net work done on the car.



1.4  A block (5 kg) is pulled by a 50 N at an angle of 30° to the ground. The block experiences a 4,2 N frictional force and moves 2,60 m. The block starts from rest. Use the work-energy principle to calculate the speed of the block after the 2,60 m.

1.5 A film star in a car (together 720 kg) drives 4,8 m down an inclined plane as indicated in the picture. She starts from rest. The car experiences a frictional force of 23 N, and the engine exerts a force of 200 N.

- a. Calculate the work done on the car by the engine.
- b. Calculate the velocity of the car after moving 4,8 m.



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